

**BACLOFEN - baclofen tablet**

Piramal Healthcare Limited

Rx only

NDC 66112-171-02

**BACLOFEN TABLETS**

**USP, 10 mg**

65000 Tablets

Northstarx

Each tablets contains 10 mg of Baclofen USP.

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**PHARMACIST:** Dispense in a well-closed container  
as defined in the USP. Use child-resistant closure (as required).

---

**Storage:** Store at 20° to 25°C (68° to 77°F).  
[See USP Controlled Room Temperature].

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**Manufactured and Packaged**

for: Northstar Rx LLC

Memphis, TN 38141

by: Piramal Healthcare Limited

Plot No. 67-70, Sector - 2, Pithampur 454 775,

Dist. Dhar, Madhya Pradesh, INDIA

**FOR REPACKAGING ONLY**

Barcode

8904026 603820

(c) Northstar Rx LLC 2005

Mfg. Lic. No. 25/10/92

Batch No.:

Mfg. Date:

Exp. Date:

Repackaged date: 6 months from date of manufacturing

EM 11371

20614887

**Rx only**

**NDC 66112 – 171 – 02**

**BACLOFEN TABLETS**  
**USP, 10 mg**

65000 Tablets



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Rx only

NDC 66112-172-02

**BACLOFEN TABLETS**

**USP, 20 mg**

32500 Tablets

Northstarx

Each tablets contains 20 mg of Baclofen USP.

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**PHARMACIST:** Dispense in a well-closed container as defined in the USP. Use child-resistant closure (as required).

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**Storage:** Store at 20° to 25°C (68° to 77°F).  
[See USP Controlled Room Temperature].

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Barcode

8904026 603837

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Mfg. Lic. No. 25/10/92

Batch No.:

Mfg. Date:


Exp. Date:  
Repackaged date: 6 months from date of manufacturing  
EM 11372  
20614888

**R<sub>x</sub> only**

**NDC 66112 – 172 – 02**

**BACLOFEN TABLETS  
USP, 20 mg**

**32500 Tablets**

 **NORTHSTAR<sub>X</sub>**


Each tablet contains 20 mg of Baclofen USP.

**PHARMACIST :** Dispense in a well-closed container as defined in the USP. Use child-resistant closure (as required).

**Storage :** Store at 20° to 25°C (68° to 77°F).  
[See USP Controlled Room Temperature].

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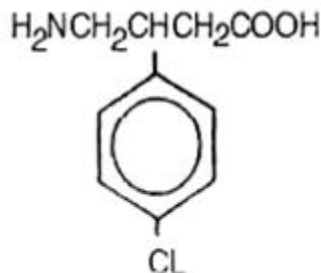
EM 11372  
20614888

## DESCRIPTION

### DESCRIPTION

Baclofen is a muscle relaxant and antispastic.

Its chemical name is 4-amino-3-(4-chlorophenyl) butanoic acid. The structural formula is:



$\text{C}_{10}\text{H}_{12}\text{ClNO}_2$

M.W. 213.66

Baclofen USP is a white to off-white, odorless or practically odorless crystalline powder. It is slightly soluble in water, very slightly soluble in methanol and insoluble in chloroform.

Each tablet, for oral administration, contains 10 mg or 20 mg Baclofen. In addition, each tablet contains the following inactive ingredients: colloidal silicon dioxide, microcrystalline cellulose, magnesium stearate, potato starch, povidone.

## CLINICAL PHARMACOLOGY

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The precise mechanism of action of baclofen is not fully known. Baclofen is capable of inhibiting both monosynaptic and polysynaptic reflexes at the spinal level, possibly by hyperpolarization of afferent terminals, although actions at supraspinal sites may also occur and contribute to its clinical effect. Although baclofen is an analog of the putative inhibitory neurotransmitter gamma-aminobutyric acid (GABA), there is no conclusive evidence that actions on GABA systems are involved in the production of its clinical effects. In studies with animals, baclofen has been shown to have general CNS depressant properties as indicated by the production of sedation with tolerance, somnolence, ataxia, and respiratory and cardiovascular depression. Baclofen is rapidly and extensively absorbed and eliminated. Absorption may be dose-dependent, being reduced with increasing doses. Baclofen is excreted primarily by the kidney in unchanged form and there is relatively large intersubject variation in absorption and/or elimination.

## INDICATIONS & USAGE

### INDICATIONS AND USAGE

Baclofen tablets are useful for the alleviation of signs and symptoms of spasticity resulting from multiple sclerosis, particularly for the relief of flexor spasms and concomitant pain, clonus, and muscular rigidity.

Patients should have reversible spasticity so that baclofen tablet treatment will aid in restoring residual function.

Baclofen tablets may also be of some value in patients with spinal cord injuries and other spinal cord diseases.

Baclofen tablets are not indicated in the treatment of skeletal muscle spasm resulting from rheumatic disorders.

The efficacy of baclofen tablets in stroke, cerebral palsy, and Parkinson's disease has not been established and, therefore, it is not recommended for these conditions.

## CONTRAINDICATIONS

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Hypersensitivity to baclofen.

## WARNINGS

### WARNINGS

1. **Abrupt Drug Withdrawal:** Hallucinations and seizures have occurred on abrupt withdrawal of baclofen. Therefore, except for serious adverse reactions, the dose should be reduced slowly when the drug is discontinued.
2. **Impaired Renal Function:** Because baclofen is primarily excreted unchanged through the kidneys, it should be given with caution, and it may be necessary to reduce the dosage.
3. **Stroke:** Baclofen has not significantly benefited patients with stroke. These patients have also shown poor tolerability to the drug.
4. **Pregnancy:** Baclofen has been shown to increase the incidence of omphaloceles (ventral hernias) in fetuses of rats given approximately 13 times the maximum dose recommended for human use, at a dose which caused significant reductions in food intake and weight gain in dams. This abnormality was not seen in mice or rabbits.

There was also an increased incidence of incomplete sternebral ossification in fetuses of rats given approximately 13 times the maximum recommended human dose, and an increased incidence of unossified phalangeal nuclei of forelimbs and hindlimbs in fetuses of rabbits given approximately 7 times the maximum recommended human dose. In mice, no teratogenic effects were observed, although reductions in mean fetal weight with consequent delays in skeletal ossification were present when dams were given 17 and 34 times the human daily dose. There are no studies in pregnant women. Baclofen should be used during pregnancy only if the benefit clearly justifies the potential risk to the fetus.

## PRECAUTIONS

### PRECAUTIONS

Safe use of baclofen in children under age 12 has not been established, and it is, therefore, not recommended for use in children.

Because of the possibility of sedation, patients should be cautioned regarding the operation of automobiles or other dangerous machinery, and activities made hazardous by decreased alertness. Patients should also be cautioned that the central nervous system effects of baclofen may be additive to those of alcohol and other CNS depressants. Baclofen should be used with caution where spasticity is utilized to sustain upright posture and balance in locomotion or whenever spasticity is utilized to obtain increased function. In patients with epilepsy, the clinical state and electroencephalogram should be monitored at regular intervals, since deterioration in seizure control and EEG have been reported occasionally in patients taking baclofen.

It is not known whether this drug is excreted in human milk. As a general rule, nursing should not be undertaken while a patient is on a drug since many drugs are excreted in human milk.

A dose-related increase in incidence of ovarian cysts and a less marked increase in enlarged and/or hemorrhagic adrenal glands was observed in female rats treated chronically with baclofen.

Ovarian cysts have been found by palpation in about 4% of the multiple sclerosis patients that were treated with baclofen for up to one year. In most cases these cysts disappeared spontaneously while patients continued to receive the drug. Ovarian cysts are estimated to occur spontaneously in approximately 1% to 5% of the normal female population.

## **ADVERSE REACTIONS**

### **ADVERSE REACTIONS**

The most common is transient drowsiness (10-63%). In one controlled study of 175 patients, transient drowsiness was observed in 63% of those receiving baclofen compared to 36% of those in the placebo group. Other common adverse reactions are dizziness (5-15%), weakness (5-15%) and fatigue (2-4%).

Others reported:

Neuropsychiatric: Confusion (1-11%), headache (4-8%), insomnia (2-7%); and, rarely, euphoria, excitement, depression, hallucinations, paresthesia, muscle pain, tinnitus, slurred speech, coordination disorder, tremor, rigidity, dystonia, ataxia, blurred vision, nystagmus, strabismus, miosis, mydriasis, diplopia, dysarthria, epileptic seizure.

Cardiovascular: Hypotension (0-9%). Rare instances of dyspnea, palpitation, chest pain, syncope.

Gastrointestinal: Nausea (4-12%), constipation (2-6%); and rarely, dry mouth, anorexia, taste disorder, abdominal pain, vomiting, diarrhea, and positive test for occult blood in stool.

Genitourinary: Urinary frequency (2-6%); and rarely, enuresis, urinary retention, dysuria, impotence, inability to ejaculate, nocturia, hematuria.

Other: Instances of rash, pruritus, ankle edema, excessive perspiration, weight gain, nasal congestion.

Some of the CNS and genitourinary symptoms may be related to the underlying disease rather than to drug therapy. The following laboratory tests have been found to be abnormal in a few patients receiving baclofen: increased SGOT, elevated alkaline phosphatase, and elevation of blood sugar.

## **OVERDOSAGE**

### **OVERDOSAGE**

Signs and Symptoms: Vomiting, muscular hypotonia, drowsiness, accommodation disorders, coma, respiratory depression and seizures.

Treatment: In the alert patient, empty the stomach promptly by induced emesis followed by lavage. In the obtunded patient, secure the airway with a cuffed endotracheal tube before beginning lavage (do not induce emesis). Maintain adequate respiratory exchange, do not use respiratory stimulants.

## **DOSAGE & ADMINISTRATION**

### **DOSAGE AND ADMINISTRATION**

The determination of optimal dosage requires individual titration. Start therapy at a low dosage and increase gradually until optimum effect is achieved (usually between 40-80 mg daily).

The following dosage titration schedule is suggested:

5 mg t.i.d. for 3 days

10 mg t.i.d. for 3 days

15 mg t.i.d. for 3 days

20 mg t.i.d. for 3 days

Thereafter additional increases may be necessary but the total daily dose should not exceed a maximum of 80 mg daily (20 mg q.i.d.). The lowest dose compatible with an optimal response is recommended. If benefits are not evident after a reasonable trial period, patients should be slowly withdrawn from the drug (see WARNINGS/Abrupt Drug Withdrawal).

## **HOW SUPPLIED**

### **HOW SUPPLIED**

**Baclofen Tablets, USP are supplied as:**

10 mg: White colored, circular, flat, uncoated tablets with 'N029' debossed on one side and scoreline on the other side.

Bottles of 30           NDC 16714 – 071 – 01

Bottles of 60           NDC 16714 – 071 – 02

Bottles of 90           NDC 16714 – 071 – 03

Bottles of 100          NDC 16714 – 071 – 04

Bottles of 500          NDC 16714 – 071 – 05

Bottles of 1000        NDC 16714 – 071 – 06

20 mg: White colored, circular, flat, uncoated tablets with 'N030' debossed on one side and scoreline on the other side.

Bottles of 30           NDC 16714 – 072 – 01

Bottles of 60           NDC 16714 – 072 – 02

Bottles of 90           NDC 16714 – 072 – 03

Bottles of 100          NDC 16714 – 072 – 04

Bottles of 500          NDC 16714 – 072 – 05

Bottles of 1000      NDC 16714 – 072 – 06

PHARMACIST: Dispense in a well-closed container as defined in the USP. Use child-resistant closure (as required).

Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].

Split tablet to be stored at controlled room temperature (20° to 25°C) for not more than 2 weeks.

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**Manufactured by:**

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INDIA.